

CLAIMS

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1. Me	thod for	communica	ting	at least	one pag	cket of	data wit	th a pr	edete	rmined
packet size	over a	communicat	tion	channel	from	a tran	smitter	to a r	eceive	er, the
transmitter	having	a memory	for	storing	a comn	non set	of data	rates,	the n	nethod
comprising t	he steps	of:								

fragmenting the at least one packet into a number of frames with a predetermined frame size by the transmitter;

automatically selecting a combination of frame size and one of the common set of data rates by the transmitter such that the transmission time of each of the frames is limited to a predefined value; and

transmitting each frame over the communication channel by the transmitter.

- 2. Method according to claim 1, in which the predefined value of transmission time is determined by characteristics of interference in the communication channel.
- 3. Method according to claim 2, in which the combination of frame size and data rate is changed dependent on the condition of the communication channel.
- 4. Method according to claim 3, in which the condition of the communication channel is determined based on success of transmission of each of the frames.
- 5. Method according to claim 4, in which success of transmission of each of the frames is determined after a predetermined number of retries.
- 6. Method according to claim 5, in which the predetermined number of retries is at least two.
- 7. Method according to claim 6 in which the predefined value of the transmission time is 4.5 msec.
- 8. Method-according to claim 6 in which the predefined value of the transmission time is 1.5 msec.
- 9. Method according to claim 6 in which the frame size is one of a set of frame sizes comprising 1500 bytes, 750 bytes, 500 bytes, 256 bytes and 128 bytes.
- 1 10. Method according to claim 6 in which the common set of data rates comprises 2 data rates of 11 Mbit/s; 5.5 Mbit/s; 2 Mbit/s and 1 Mbit/s.

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according to claim 6.



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1	11. Device for receiving or transmitting at least one packet of data with a
2	predetermined packet size over a communication channel between the device and a
3	second device, the device comprising:
4	a processor and memory means connected to the processor for storing a common
5	set of data rates, the processor being arranged to
6	fragment the at least one packet into a number of frames with a predetermined
7	frame size;
8	automatically select a combination of frame size and one of the common set of data
9	rates such that the transmission time of each of the frames is limited to a predefined
10	value; and
11	transmit each frame over the communication channel.
1	12. Device according to claim 11, in which the processor is further arranged to
2	execute the method according to claim 6.
1	13. Computer program comprising computer readable instructions, which comprise
2	method steps for controlling a transmitter that is communicating at least one data packet
3	with a predetermined packet size over a communication channel, the transmitter having
4	memory means for storing a common set of data rates, by:
5	fragmenting the at least one packet into a number of frames with a predetermined
6 .	frame size by the transmitter;
7	automatically selecting a combination of frame size and one of the common set of
8	data rates by the transmitter such that the transmission time of each of the frames is
9	limited to a predefined value; and
10	transmitting each frame over the communication channel by the transmitter.
1	14. Computer program according to claim 13, further comprising the method steps

15. Data carrier provided with a computer program according to claim 14.